

EXHIBIT F

**Dakota Access Environmental Crossing Analysis for Reroute
Locations Matrix**

**Dakota Access Environmental Crossing Analysis for Reroute Locations
North Dakota PSC**

Filed Route	Centerline length within reroute location (miles)	Length of centerline outside original PSC corridor (miles)	Land Cover Type ¹ (acres within workspace)						Wetlands ² (acres within workspace)	Waterbodies ² (number of features crossed by centerline)
			Cultivated Crops	Forest	Developed, Open Space	Grasslands/Herbaceous	Pasture/Hay	Shrub/Scrub		
Reroute Location 20										
December 2014	6.73	5.08	63.45	0.08	3.03	60.78	6.81	0.32	2.89	1
March 2016	6.72		61.52	0.24	1.94	47.44	7.5	0	1.66	1
<i>Net Difference</i>	-0.01		-1.93	+0.16	-1.09	-13.34	+0.69	-0.32	-1.23	0
Reroute Location 22										
December 2014	3.04	1.85	44.42	0.26	1.46	10.12	0	1.81	0.17	0
March 2016	3.01		40.04	2.38	1.46	8.89	0	2.43	0.37	0
<i>Net Difference</i>	-0.03		-4.38	+2.12	0	-1.23	0	+0.62	+0.2	0
Reroute Location 24										
December 2014	0.81	3.89	4.59	0	1.75	12.72	0	0.81	0	3
March 2016	0.82		3.60	0	0.54	9.29	0	0.76	0.37	1
<i>Net Difference</i>	+0.01		-0.99	0	-1.21	-3.43	0	-0.05	+0.37	-2
Reroute Location 25										
December 2014	5.79	4.91	63.97	0	2.9	45.26	0	0.89	0.76	1
March 2016	5.97		62.36	0	2.88	44.18	0	0.89	0.04	1
<i>Net Difference</i>	+0.18		-1.61	0	-0.02	-1.08	0	0	-0.72	0
Reroute Location 26										
December 2014	2.64	2.44	47.6	0	0.81	0	0	0	1.02	0
March 2016	2.59		46.7	0	1	0	0	0	0.02	0
<i>Net Difference</i>	-0.05		-0.9	0	+0.19	0	0	0	-1	0
Reroute Location 28										
December 2014	1.39	1.88	27.31	0	0.23	0	0	0	0	2
March 2016	2.14		55.12	0	1.53	3.16	0	0	0.06	1
<i>Net Difference</i>	+0.75		+27.81	0	+1.3	+3.16	0	0	+0.06	-1
Reroute Location 31										
December 2014	3.84	2.82	16.11	0.39	0.5	50.56	0	1.97	0	1
March 2016	3.93		26.35	0.36	0.34	42.8	0	0.7	0	5
<i>Net Difference</i>	+0.09		+10.24	-0.03	-0.16	-7.76	0	-1.27	0	+4
Reroute Location 34										
December 2014	3.88	3.8	36.19	0	2.03	30.25	0	1.3	0.71	2
March 2016	3.88		37.48	0	2.05	29.56	0	2.5	0.03	3
<i>Net Difference</i>	0		+1.29	0	+0.02	-0.69	0	+1.2	-0.68	+1
Reroute Location 36										
December 2014	3.89	1.77	42.18	0	5.5	16.31	0	1.43	0	2
March 2016	4.06		45	0.17	2.65	26.51	0	0.61	0.24	1
<i>Net Difference</i>	+0.17		+2.82	+0.17	-2.85	+10.2	0	-0.82	+0.24	-1

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			Cultivated Crops	Forest	Developed, Open Space	Grasslands/Herbaceous	Pasture/Hay	Shrub/Scrub		
Reroute Location 42										
December 2014	3.39	2.48	47.46	0	2.34	17.24	0	0	0.22	1
March 2016	3.34		47.88	0	1.59	11.39	0	0	0.07	1
<i>Net Difference</i>	-0.05		+0.42	0	-0.75	-5.85	0	0	-0.15	0
Reroute Location 44										
December 2014	3.77	3.3	36.44	0.11	1.37	33.91	0.66	1.36	0	1
March 2016	4.44		29.81	0.27	2.76	32.26	0	3.89	0.17	1
<i>Net Difference</i>	+0.67		-6.63	+0.16	+1.39	-1.65	-0.66	+2.53	+0.17	0
Reroute Location 46										
December 2014	6.56	5.54	31.2	0.15	1.22	83.48	0	8.11	2.53	6
March 2016	6.21		32.79	0	0.64	71.75	0	10.15	0.48	7
<i>Net Difference</i>	-0.35		+1.59	-0.15	-0.58	-11.73	0	+2.04	-2.05	+1
Reroute Location 50										
December 2014	4.86	3.47	0	9.06	0.11	84.57	0	6.46	0.6	6
March 2016	4.61		4.11	20.44	0	69.52	0	9.35	2.07	7
<i>Net Difference</i>	-0.25		+4.11	+11.38	-0.11	-15.05	0	+2.89	+1.47	+1
Reroute Location 52										
December 2014	3.13	1.85	0	1.54	0	58.8	0	0.84	0.02	1
March 2016	3.22		0	1.19	0	36.93	0	0.81	0.01	1
<i>Net Difference</i>	+0.09		0	-0.35	0	-21.87	0	-0.03	-0.01	0
Reroute Location 53										
December 2014	5.06	2.03	14.9	0	3.78	63.32	15.38	2.48	0.39	4
March 2016	5.34		17	0	2.09	62.71	15.02	0.17	1.08	2
<i>Net Difference</i>	+0.28		+2.1	0	-1.69	-0.61	-0.36	-2.31	+0.69	+2
TOTAL NET DIFFERENCE	+1.50	--	+33.94	+13.46	-5.56	-70.93	-0.33	+4.48	-2.64	+5

¹Based on the U.S. Geological Survey National Land Cover Database

²Based on field delineations